

June 15, 2023

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ND-23-0491
10 CFR 52.99(c)(1)

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555-0001

Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 4
ITAAC Closure Notification on Completion of 2.3.29.02 [Index Number 489]

Ladies and Gentlemen:

In accordance with 10 CFR 52.99(c)(1), the purpose of this letter is to notify the Nuclear Regulatory Commission (NRC) of the completion of Vogtle Electric Generating Plant (VEGP) Unit 4 Inspections, Tests, Analyses, and Acceptance Criteria ITAAC item 2.3.29.02 [Index Number 489]. This ITAAC verified that water poured into the equipment and floor drainage of the radioactive portions of the auxiliary building, annex building, and radwaste building is collected in a Radioactive Waste Drain System (WRS) sump or Liquid Radwaste System (WLS) waste holdup tanks located in the auxiliary building. Additionally, the WRS collects chemical wastes from the auxiliary building chemical laboratory drains and the decontamination solution drains in the annex building and directs these wastes to the chemical waste tank of the liquid radwaste system. The closure process for this ITAAC is based on the guidance described in NEI 08-01, "Industry Guideline for the ITAAC Closure Process under 10 CFR Part 52," which was endorsed by the NRC in Regulatory Guide 1.215.

This letter contains no new NRC regulatory commitments. Southern Nuclear Operating Company (SNC) requests NRC staff confirmation of this determination and publication of the required notice in the Federal Register per 10 CFR 52.99.

If there are any questions, please contact Kelli Roberts at 706-848-6991.

Respectfully submitted,



Jamie M. Coleman
Regulatory Affairs Director Vogtle 3 & 4

Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.3.29.02 [Index Number 489]

JMC/CTW/sfr

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cc: Regional Administrator, Region II
 Director, Office of Nuclear Reactor Regulation (NRR)
 Director, Vogtle Project Office NRR
 Senior Resident Inspector – Vogtle 3 & 4

**Southern Nuclear Operating Company
ND-23-0491
Enclosure**

**Vogtle Electric Generating Plant (VEGP) Unit 4
Completion of ITAAC 2.3.29.02 [Index Number 489]**

ITAAC Statement

Design Commitment

2. The WRS collects liquid wastes from the equipment and floor drainage of the radioactive portions of the auxiliary building, annex building, and radwaste building and directs these wastes to a WRS sump or WLS waste holdup tanks located in the auxiliary building.

3. The WRS collects chemical wastes from the auxiliary building chemical laboratory drains and the decontamination solution drains in the annex building and directs these wastes to the chemical waste tank of the liquid radwaste system.

Inspections/Tests/Analyses

A test is performed by pouring water into the equipment and floor drains in the radioactive portions of the auxiliary building, annex building, and radwaste building.

A test is performed by pouring water into the auxiliary building chemical laboratory and the decontamination solution drains in the annex building.

Acceptance Criteria

The water poured into these drains is collected either in the auxiliary building radioactive drains sump or the WLS waste holdup tanks.

The water poured into these drains is collected in the chemical waste tank of the liquid radwaste system.

ITAAC Determination Basis

Testing is performed in accordance with Unit 4 preoperational test documented in the ITAAC Technical Report (Reference 1) to confirm the Radioactive Waste Drain System (WRS) collects liquid wastes from the equipment and floor drainage of the radioactive portions of the auxiliary building, annex building, and radwaste building and directs these wastes to a WRS sump or Liquid Radwaste System (WLS) waste holdup tanks located in the auxiliary building.

Additionally, testing is performed to confirm WRS collects chemical wastes from the auxiliary building chemical laboratory drains and the decontamination solution drains in the annex building and directs these wastes to the chemical waste tank of the liquid radwaste system.

The water poured into these drains is collected either in the auxiliary building radioactive drains sump or the WLS waste holdup tanks.

Testing was performed by pumping down the WRS sump and installing drain plugs or covers, as appropriate, for all the affected drain paths. Water was poured into the equipment and floor drains of the radioactive portions of the auxiliary building, annex building, and radwaste building. Each drain was tested individually while monitoring the sump level and verifying sump level increased or verifying flow from the correct pipe into the sump when water was poured into a drain path. Additional testing was performed on the WLS waste holdup tanks room drains and auxiliary building elevator pit drain which have normally isolated drain paths. Water was poured into the floor drain and then isolation valves were opened to align the drain to the sump pump

suction line to pump the water to one of the WLS waste holdup tanks. Each drain was tested individually while monitoring the tank level and verifying the waste holdup tank level increased.

The Unit 4 preoperational test results documented in the ITAAC Technical Report (Reference 1) confirmed that the water poured into these drains is collected either in the auxiliary building radioactive drains sump or the WLS waste holdup tanks.

The water poured into these drains is collected in the chemical waste tank of the liquid radwaste system.

Testing was performed by initially ensuring an adequate volume was available in the chemical waste tank to accept the water from the testing and installing drain plugs or covers, as appropriate, for all the affected drains. The cover for the drain to be tested was removed and water was poured into each of the drains in the auxiliary building chemical laboratory and the decontamination solution drains in the annex building, one drain at a time, while monitoring the chemical waste tank level of the WLS and verifying the tank level increased for each drain tested.

The Unit 4 preoperational test results confirmed that the water poured into these drains is collected in the chemical waste tank of the liquid radwaste system.

Reference 1 is available for NRC inspection as part of ITAAC 2.3.29.02 Unit 4 Completion Package (Reference 2).

ITAAC Finding Review

In accordance with plant procedures for ITAAC completion, Southern Nuclear Operating Company (SNC) performed a review of all findings pertaining to the subject ITAAC and associated corrective actions. This review found there were no relevant ITAAC findings associated with this ITAAC. The ITAAC completion review is documented in the ITAAC Completion Package for ITAAC 2.3.29.02 (Reference 4) and is available for NRC review.

ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.3.29.02 was performed for VEGP Unit 4 and that the prescribed acceptance criteria were met.

Systems, structures, and components verified as part of this ITAAC are being maintained in their as-designed, ITAAC compliant condition in accordance with approved plant programs and procedures.

References (available for NRC inspection)

1. SV4-WRS-ITR-800489, Rev. 0, "ITAAC Technical Report, Unit 4 Radioactive Waste Drains Flow Verification: ITAAC 2.3.29.02, NRC Index Number: 489"
2. 2.3.29.02-U4-CP-Rev0, ITAAC Completion Package